

IMPROVED INK JET PRINthead AND METHOD THEREFOR
ABSTRACT OF THE DISCLOSURE

An improved ink jet printhead for an ink jet printer and method therefor. The printhead includes a semiconductor substrate containing ink ejection devices. A thick
5 film layer is attached to the substrate. A nozzle plate is attached to the thick film layer. The nozzle plate contains a plurality of ink ejection nozzles corresponding to the ink ejection devices. The printhead contains flow features having a height dimension and a width dimension formed therein for flow of ink to the plurality of ink
10 ejection devices for ejection through the nozzles. At least a portion of the flow feature dimensions for at least one of the nozzles is formed in both the thick film layer and laser ablated in the nozzle plate, wherein the thick film layer contains at least 12 % of the flow feature dimensions.

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